

L 17830-63

ACCESSION NR: AP3004708

Polymer II is insoluble and infusible up to 500C. Polymers I and II both emit, an EPR signal. On conversion of I to II, the signal shape — a narrow symmetrical singlet without a hyperfine structure — loes not change, but the number of unpaired spins increases from 3 x 10¹⁷ to 4.2 x 10¹⁹/g, conductivity (0) at 300K rises from 1 x 10⁻¹⁵ to 8 x 10⁻⁸ ohm⁻¹cm⁻¹, and activation energy (E) of conduction drops from 21.25 to 8.30 kcal. Since paremagnetic impurities are excluded in polymer synthesis, the paramagnetism of I and II is evidently due to their structure, i.e., is a result of the formation of a charge-transfer complex between identical molecules. The temperature dependence of conductivity follows the exponential law. The drop in E on conversion of I to II is evidently due to chain ordering, which facilitates electron transfer. The O of II can be enhanced by formation of a charge-transfer complex with a bromine molecule. For example, at 0.10 mol bromine per repeat unit of II (see formula) and 20-170C, O is 1 x 10⁻² ohm⁻¹cm⁻¹; at 0.11 mol bromine and 20-200C, O is 3 x 10⁻⁴. Hence, the results obtained are satisfactory, but only for a limited temperature range. Orig. art. has: 2 formulas, 2 figures, and 3 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AN SSSR)

Card 3/43

OSORGIN, A.V.; LAVROVA, I.V.; PSHENITSYNA, I.F.; VYSKUBOVA, M.M.; SEMENOV, M.N., red.; ROROKINA, Z.P., tekh. red.

[Problems in the comprehensive development of transportation in the virgin and fallow land region of northern Kazakhstan] Voprosy kompleksnogo razvitiia transporta v raionakh osvoeniia tselinnykh i zalezhnykh zemel' Severnogo Kazakhstana, Alma-Ata Izd-vo akad. nauk Kazakhskoi SSR, 1957. 107 p. (Akademiia nauk Kazakhskoi SSR, Alma-Ata Institut ekonomiki. Trudy, vol. 1). (MIRA 11:3) (Kazakhstan--Transportation)

PSHENITSYNA, K.A.

م دورد درورتيوس پريوپوست که محمد

Resuscitation of the newborn after severe asphyxia by means of an apparatus for artificial respiration. Akush. i gin. 32 no.6:33-37 N-D 156. (MIRA 10:11)

1. Iz 1-y gorodskoy klinicheskoy bol'nitsy imeni N.I.Pirogova (glavnyy vrach - zasluzhennyy vrach respubliki L.D.Ghernyshov) i akushersko-ginekologicheskoy kliniki (zav. - prof. I.F.Zhordania) lechebnofo fakul'teta II Moskovskogo mediteinskoy instituta imeni I.V.Stalina.

(ASPHYXIA NEONATORUM, ther.
resuscitation, use of appar. for artif. resp.)
(RESPIRATION, ARTIFICIAL, appar. and instruments
use in resuscitation in asphyxia mechatorum)

PSHENITSYNA, H.F.

Permeability of the vascular and connective tissue structure in hypertension and its modification under therapy. Zdrav. Kazakh. 17 no.1:14-19 '57. (MIRA 12:6)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof. M.A.Brener) Kazakhskogo gosudarstvennogo meditsinskogo instituta im. V.M.Molotova.

(TISSUES--PERMEABILITY) (HYPERTENSION) (SLEEP--THERAPEUTIC USE)

PSHENITSYNA, M.F. Cam Med Sci -- (diss) "Fenetrability of Vascular Connections

Alma *** Ata, 1958, 16 pp (Kazakh State Med Inst). 400 copies.

(KL, 10-58,122).

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PSHENITSYNA, V.P.	PRIKHOT'KO, A.F. 24(7) 3 PHASE I BOOK EXPLOITATION SOV/136	55	- The second	
To a time to be desired to be	Materialy I Vesscyuriogo soveshchaniya po spektroskopii. Molekulyarnaya spektroskopiya (Papers of the 10th Ali Conference on Spectroscopy. Vol. 1: Molecular Spect Conference on Spectroscopy. Vol. 1: Molecular Spect [L'vov] Izd-vo L'vovskogo univ-ta, 1957. \$99 p. 8, 06 printed. (Saries: Its: Pizzchnyy birnyk, vyp. 3/2 Miditional Sponsoring Agency: Akademiya nauk SSSR. Kom spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.; Saranyuk Meporent, B.S., Doctor of Physical and Mathematical Septemberlinsky, I.L., Doctor of Physical and Mathematical Spekinsky, V.A., Doctor of Physical and Mathematical Spekinsky, V.A., Candidate of Technical Sciences, Rim Candidate of Physical and Mathematical Sciences, Min Candidate of Physical and Mathematical Sciences, and A. Ye., Candidate of Physical and Mathematical Sciences, and	runion roscopy) 90 dopies 8/) sissiya po (c, T.V.; Ed., Deceased), sisnes, L Sciences, Sciences, Sciences, Solivy, S.M.,	; ;	
- Cod	Savinov, B.O. Use of Infrared Absorption Spectra in Determining the Characteristics of the Products of Vitamin E Synthesis			
	Belyy, M.U. Optical Method for the Determination of the Composition of Complexes in Collection	265	:	
	Bogomolov, S.G., M.P. Grebenshohikova, and I. Ya. Liplavk. Analysis of Phenol-naphthalene Mixtures by Means of Ultraviolet Absorption	267		
	of the Naphthalene Hydrocarbons by Means of Ultraviolet Absorption Snackon	270		
	canadath, A.N., V.P. Rahenitsyna, and V.M. Khisheva. Spectrophotometric Mothods of Phase Control in Processing Acetic Anhypide.	272		
	Neporent, B.S., K.P. Vasilevskiy, and N.A. Lapina. Qualitative Absorption by Means of Water Vapon in Mear Infrared Region	275		

SHABADASH, A.N.; PSHENITSYNA, V.P.; KHISHEVA, V.M.

Spectrophtometric method for vapor-phase analysis of the acetic anhydride production, Fiz. sbor. no.3:275-277 *57. (MIRA 11:8)

1. Gosudarstvennyy nauchno-issledovatel skiy i proyektnyy institut promyshlemnosti plasticheskikh mass.

(Acetic anhydride—Spectra) (Spectrophotometry)

PSHENITSYNA, V.P.; SHABADASH, A.N.; FREMEL', T.V.

Association phenomena in solutions of phenol formaldehyde novolak resins of orthoregular structure. Dokl. AN SSSR 153 no.3:650-652 N '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass. Predstavleno akademikom V.A. Karginym.

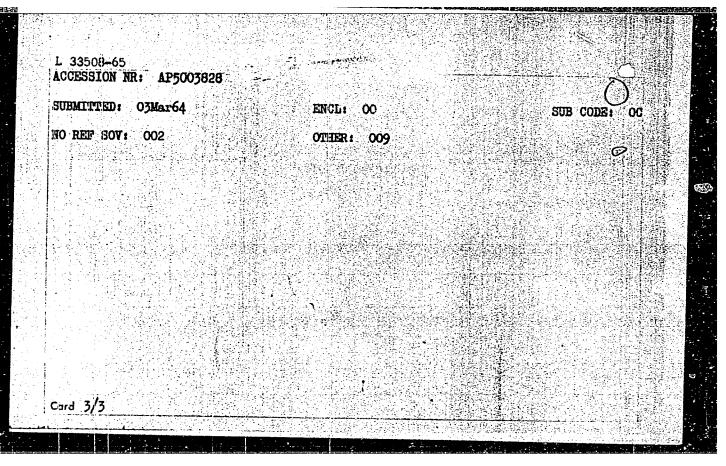
PSHENITSYNA, V.P.; SHABADASH, A.N.

Spectroscopic analysis of the products of condensation of para-substituted phenols with formaldehyde. Plast.massy no.3:57-59 '64. (MIRA 17:3)

33508-65	NR: AP5003826	(m)/EWP(j)/I Pc-4 8	/Pr-4 RM	s/0190/65/007/001/0055/0) 062
	Cimabana Ta	V.: Shershnev. V. A	.; Pshenitsyn	a, V. P.; Događkin, B. A.	Λ
rete: Re	eaction of uns	aturated elastomers	with phenoli	orwaldehyde derivatives	B
		arnyye soyedineniya	1, v. 7, no. 1	, 1965, 55-62	
OPIC TAG	5: butyl rubb	er, vulcanization,	IR analysis/	IKS 14 IR apparatus, I 80	
BSTRACT: -800 app nd of bu	An IR study aratus) was 60 tyl rubbers wi . The IR spec	th 2.6-dimethylol- otra of SKD and but ically. To relate	4-tertbutylyl rubber con the structura	aratus, 2000-4000 cm ⁻¹ on of unsaturated rubbers (ohenol (DMF), with and wittaining 12 parts (by weight kinetics to the consumptwas introduced into the	hout it)
		H _s C C CH _s	H _a C - C - CH _a		
Card 1/3			(Lim. + kg) - 1 Zan-		

L 33508-65 ACCESSION NR: AP5003828 rubbers (dissolved in CC1A). It was found that the degree of structurization could be expressed as $N_0 = -3.5 \cdot 10^{10} \log \frac{c}{0.3} \text{cm}^{-3}$ $N_c = 2.0 \cdot 10^{10} \lg \frac{c}{0.3} c m^{-3}$ (where c = ester group concentration, mol/1) for initial DMF concentration of 12 and 6 parts by weight respectively. To show that the radical processes, which develop during structurization, end when an equilibrium degree of structurization is reached, a free radical acceptor (2mercaptobenzothiazole, MBT) was added to the rubbers. During the initial stages, MBT decreased the degree of structurization, but had no effect after equilibrium was reached. The addition of SnCl_2H_O significantly increased the vulcanization rate (at temperatures above 1600 by orders of magnitude), but no esters could be found, and the concentration of phenolic hydroxyl decreased by 50% after 15 minutes at 1600. This indicates the possibility of chromanic structures as well as an interaction of DMF with of-methylene hydrogen from the rubber. Orig. art. has: 3 figures. ASSOCIATION: Moskovskiy institut tonkoy knimicheskoy tekhnologii im. M. B. Lomonosova (Moscow Institute of Fine Chemical Technology)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343510010-3



L U8799-67 EWT(m)/EWP(j) (JP(c) RM AP6030852 (A, W) SOURCE CODE: UR/0191/66/000/009/0042/0045		
AUTHOR: Chibisova, Ye. I.; Kovarskaya, B. M.; Pshenitsyna, V. P.; Puzakova, Z. A.; Kaganova, Ye. L.		
ORG: none TITLE: Degradation of unsaturated polyesters		
SOURCE: Plasticheskiye massy, no. 9, 1966, 42-45		
TOPIC TAGS: polyester resin, pyrolysis, oxidation, polyester plastic, phthalic anhydride, synthetic material ABSTRACT: The kinetics of thermal and oxidative degradations of polyesters based on		
ethylene glycol and maleic anhydride and on dichlorohydrinpentaerythrite and maleic- and phthalic anhydrides were studied. The kinetics of thermal degradation were studied in the 200-400°C range by following the pressure drop in the system and by IR spectros- copy. Oxidative degradation was studied in the 180-240°C range and at an initial oxy-	٥.	ŵ.
gen pressure of 200-500 mm Hg. The low values of the activation energy of thermal degradation in all polyesters indicate that the process proceeds via a complex mechanism. The involvement of the free radical type intermediates in the thermal degradation is suggested. The IR spectra indicate that thermal degradation in polyesters involves the cleavage of the C-O bonds of the ester groups. The IR spectra showed that the	_	
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ACC NR: AP6030852

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products of the oxidative degradation of the polyesters contain acetaldehyde, formaldehyde, benzaldehyde, and maleic anhydride. It is concluded that the oxidative degradation mechanism in polyesters involves an attack of oxygen on the a-carbon of the styrene-group and the subsequent formation of hydroperoxide-type intermediates. Unsaturated compounds were also detected in the products of oxidative degradation of the polyesters. Orig. art. has: 7 figures and 1 table.

SUB CODE: 07// SUBM DATE: 00/ ORIG REF: 003/ OTH REF: 005

Card 2/2 nst

PSHENITSYNA, Ye.A.

Rupture of a large umbilical vessel in membranous attachement of the umbilical cord. Akush.i gin. 34 no.3:103-104 My-Je '58.

(MIRA 11:6)

1. Iz Noginskogo rodil'nogo doma (glavnyy vrach P.M.Kurchin).

Zaveduyushchaya rodil'nym otdeleniyem Noginskogo rodil'nogo doma.

(LABOR, compl.

rupt. of large umbilical vessel (Rus))

(UBILICAL CORD, blood supply

rupt. of large vessel during labor (Rus))

CIA-RDP86-00513R001343510010-3 "APPROVED FOR RELEASE: 06/15/2000

AUTHOR:

Pshenko, A.M., Engineer

28-6-4/40

TITLE:

Unification and Normalization of Instruments and Means of Automation (Unifikatsiya i normalizatsiya priborov i sredstv avtomatizatsii)

PERIODICAL:

Standartizatsiya, 1957, # 6, pp 13 - 15 (USSR)

ABSTRACT:

The article treats the present position and future developments in the Soviet production of instruments and automation devices.

Thus far there were no fixed limits for dimensions, fits and tolerances, threads, etc., and designers were free to choose these elements. This has led to a great multiplicity of devices identical in purpose but non-interchangeable. This is illustrated by the examples of the plants "Komega", "Energopribor", the Moscow plant "Manometr", the Chelyabinsk "Teplopribor", the Ufa Plant of Low-Voltage Devices, the Tomsk "Manometr", the plants "Elektropul't" and "Il'marine". Instances of noncompliance to state standards which cause difficulties in

assembly are cited.

There is no standard for drawings, and this handicaps the specialization of plants, for when a new instrument type is to be produced, the amendments of drawings take so much time that it takes 1 to $l^{\frac{1}{2}}$ years instead of normal 3 months

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Unification and Normalization of Instruments and Means of Automation 28-6-4/40

to get the unit into production.

The Special Designing Bureau for Standardization and Normalization of Instrument (SKB Standartizatsii i normalizatsii priborostroyeniya) created in 1957, will issue "Basic Design Norms" based on the state standards and the experience of leading plants. The normalization experience of the radio, shipbuilding and aircraft industries will be utilized.

AVAILABLE:

Library of Congress

Card 2/2

1. Industry-USSR 2. Instrumentation-Standards 3. Automation-Standards

CIA-RDP86-00513R001343510010-3 "APPROVED FOR RELEASE: 06/15/2000

PSHERKE, HM.

28-58-2-1/41

AUTHOR:

Pshenko, A.M., Engineer

TITLE:

A Knowledge of Standardization -for Every Specialist (Znaniya standartizatsii - kazhdomu spetsialistu)

PERIODICAL: Standartizatsiya, 1958, Nr 2, pp 3-6 (USSR)

ABSTRACT:

The author outlines the present state of standardization in the USSR (8,000 All-Union state standards apart from the standard specifications of the individual republics and normal's" of separate industry branches) and points out the results of the lack of coordination and special knowledge of standardization on the part of technicians. For instance: 2,918 transformers of different design and size have been developed, while 70 would have been sufficient. Mentioning that in the US, Germany, Britain, Czechoslovakia and other countries, standardization is being taught in technical schools, he says that it is time to add an obligatory standardization course to the programs of the Soviet medium and higher technical schools. The necessary special literature (which does not yet exist) must be provided. Practical organizatory suggestions are made.

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A Knowledge of Standardization -for Every Specialist 28-58-2-1/41

The editor suggests that workers of scientific institutes, technical schools, scientific-technical societies, industry, sovnarkhozes, and the Ministry of Higher Education express their opinions on this subject.

AVAILABLE: Library of Congress

Card 2/2 1. Technical standardization-USSR 2. Industrial standardization-USSR

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CIA-RDP86-00513R001343510010-3 "APPROVED FOR RELEASE: 06/15/2000

PSHENKO, A.M.

Pshenko, A. M.

119-6-8/16

AUTHOR:

TITLE:

Concerning the Problem of the Standardization and

Normalization in the Construction of Apparatus (K voprosu ob unifikatsii i normalizatsii v priborostroyenii).

PERIODICAL:

Priborostroyeniye, 1957, Nr 12, pp. 22-24 (USSR)

ABSTRACT:

The removal of the different types of devices with equal destination produced in various offices and factories, as well as the standardization and normalization of the component parts and joints of the devices, all this seems to be the main condition of the reduction of manufacturing expenses, the increase in manufacturing, the transition from small to large series and to mass production. Practice in the ministeries of the shipbuilding, the radiotechnical and the aviation industry showed that the introduction of norms guarantees a production of good quality. In this respect the situation is worse in the enterprises which formerly belonged to the domain of the Ministery for Construction of Apparatus and Means of Automatic Control and others. The majority of these enterprises completely lack restrictive norms so that the designers have a free hand, which leads to a variety of dimensions and designs which may by nothing be justified.

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Concerning the Problem of the Standardization and Normalization in the Construction of Apparatus

119-6-8/16

Further the author gives some examples which characterize the present state in this respect Figure 1 shows electronic regulating devices produced by the factories "Kometa" and "Energopribor" with quite different over-all dimensions and cost of production which can only be explained by the fact that each of these types was designed and produced by a different ministery. In figure 2 electronic bridges of the type >M P of the Moscow factory "Manometr" and of the Chelyabinskiy works of the former Ministery for Metallurgy are represented. The technical characteristics of the two devices are equal, the outer shape and dimensions quite different. Figures 3 and 4 give two examples of this kind for control keys and a standard relay of the type PYC. In february 1957 the Special Design Office for the Standardization and Normalization of the Construction of Apparatus (SKBGN) was founded which now intends to issue uniform construction norms and a guide to them. For the performance of this work it is intended to utilize the great experience of the radiotechnical, shipbuilding and aviation industry. It is also intended to introduce an

Card 2/3

Concerning the Problem of the Standardization and Normalization in the Construction of Apparatus

119-6-8/16

official system of norms for the making of drawings which is effective in the above-mentioned industries. It wil. be necessary to work out about 1500 norms, 800 instructions and 100-150 standards in 2 to 3 years. The branch department for standardization and normalization as well as the leading scientific research institutes of the construction of apparatus: NIISchetmash, NIITeplopribor, VNITIPribor and TsNIIKA also play an important part in the organizational structure of the official normalization. Their experimental introduction in one ore more factories is to to considered an obligatory condition of the publication of branch-norms. It is necessary to draw upon scientists, rationalizers and renewers of the manufacture for the work of standardization and normalization. In the periodical "Priborostroyeniye" it is suggested to introduce a column for the standardization and normalization. There are 4 figures.

AVAILABLE:

Library of Congress.

Card 3/3

PSHEMKO, M. M.

Metallic filling machine MZ-1 Moskva, Ugletskhizdat, 1952. 54 p. (53-31065)

TN292.P8

PSHENKO, M. M.

Coal Mines and Mining

Forming a massive block with pneumatic filling. Ugol, No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED.

S/169/63/000/001/028/062 D218/D307

AUTHOR:

Pshennikov, K.V.

TITLE:

Some properties of earthquake aftershocks in the

Transbaykal and Mongolia

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 1, 1963, 8-9,

abstract 1G56 (Geologiya i geofizika, 1962, no. 4,

119-121)

A study was made of the aftershocks of six earthquakes in Transbaykal and Mongolia with 5 < M < 73/4. It is shown that the energy of the maximum aftershock is on the average lower by three orders of magnitude as compared with the energy of the main earthquake (the energy of the main event and of aftershocks was determined from the values of M taken from the Bulletin of Seismic Stations of the USSR, using the formula 1g E erg = 12 + 1.8 M). On the basis of a study of the volume of the aftershock focus zone, it was shown that as the energy of the earthquake increases, there is an increase in the volume of the aftershock focus, while the ratio E/D

Card 1/2

S/169/63/000/001/028/062

APPROVED FOR RELEASE: 06/15/2000 Some properties of earthquake

Dela Ropes of re-The slopes of recurrence graphs for aftershocks is \(\chi = 0.60\), while according to the data of S.L. Solovyev the slope for the Transbaykal earthquakes = 0.4, i.e. in aftershock series, the 'specific weight' of weak aftershocks is much greater than in the course of a normal seismic process. The total energy of aftershocks is smaller than the energy of the main shock by many hundreds of times (between 0.2 and 1%). Analysis of observations on weaker Transbaykal earthquakes showed that earthquakes with energies of 1017 - 1020 erg are frequently unaccompanied by aftershocks. Abstracter's note: Complete translation

Card 2/2

PSHENNIKOV, K.V., BOROVIK, N.S.

Some characteristics of the formation of an epicentral zone of aftershocks. Geol. i geofiz. no.3:128-131 '65.

1. Institut zemnoy kory Sibirskogo otdeleniya AN SSSR, Irkutak.

UR/0210/65/000/009/0127/0130 EMT(1)/EMA(h)SOURCE CODE: L 20468-66 ACC NR: AP6012053 AUTHOR: Borovik, N. S.; Pshennikov, K. V. ORG: Institute of the Earth's Crust, Siberian Department, AN SSSR, Irkutsk (Institut zemnoy kory Sibirskogo otdeleniya AN SSSR) TITLE: Comparison of epicentral zones of aftershocks with the principal relief elements and stresses at the foci of their main shocks SOURCE: Geologiya i geofizika, no. 9, 1965, 127-130 TOPIC TAGS: earthquake, tectonics, shock wave ABSTRACT: A study was made of the epicentral zones of aftershoot of a number of strong earthquakes in different parts of the world as colished by foreign and Soviet authors. The epicenters of aftershocks on the earth's surface usually form an elongated region. In most cases the earth's surface usually form an elongated region. longer axis of this region is oriented parallel to the principal relief elements, such as the axis of a mountain system or a tectonic depression, the sea coast or chains of islands. In most cases the epicenter of the principal earthquake is situated on the longer axis of the epicentral zone of the aftershocks, along its edge, although in some cases at the center of the zone. If it is assumed that the field of stresses forming the relief and the field of stresses causing earthquakes are the same, the direction of the horizontal component of the null vector should coin-

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KOLESNIKOV, P.A.; PETROCHENKO, Ye.I.; PSHENOVA, K.V.; ZORE, S.V.

Phenol substances of wheat roots as components of oxidative systems. Biokhimila 30 no.2:368-374 Mr-Ap '65. (MIRA 18:7)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

S/169/61/000/011/008/065 D228/D304

AUTHOR:

Pshennikov, K.V.

TITLE:

The approximate estimation of the energy of recurrent shocks of the mid-Baykal earthquake of August 29, 1959

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 11, 1961, 15, abstract 11A143 (Geologiya i geofizika, no. 2, 1961,

117 - 120)

TEXT: The formula of Golitsin which he applied for surface waves was first used for determining the energy of recurrent shocks of the mid-Baykal earthquake. The coefficient of attenuation which enters into this formula appeared to be substantially different for various waves. Then, from observations at 5 fixed seismic stations in the Baykal region, the coefficient of attenuation was calculated from the formula containing the ratio of the amplitudes of the matrom the formula containing the ratio of the amplitudes of the matrom ground displacements. It was found that the coefficient of attenuation changes strongly on moving from one pair of stations to another. In subsequent calculations the coefficient of attenuation

Card 1/2

The approximate estimation of ...

S/169/61/000/011/008/065 D228/D304

was assumed to equal zero. The energy was calculated for 695 recurrent shocks recorded by the Irkutsk station; the two strongest shocks had an energy of 1020 ± 0.5 ergs; judging from the graph the seismic activity clearly diminishes in time, but with no strict pattern. [Abstractor's note: Complete translation].

Card 2/2

GOLENETSKIY, S. I.; PSHENNIKOV, K.V.

The earthquake of February 7, 1957 in northern Mongolia. Biul. Sov. po seism. no.10:98-107 '60. (MIRA 13:11)

 Seysmicheskaya stantsiya, Irkutsk. (Mongolia--Earthquake, 1957)

S/169/62/000/002/016/072 D228/D301

AUTHOR:

Pshennikov. K. Y.

TITLE:

Lg-waves from observations at Irkutsk

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 2, 1962, 14, abstract 2A107 (Geologiya i geofizika, no. 5, 1961,

87~90)

TEXT: Clear arrivals of short-period surface Lg-waves with periods from 3 to 12 sec were detected on seismograms of the Irkutsk seismic state. In with the recordings of earthquakes that occurred in the area is amchatka, the Kurile Islands, Japan, Taiwan Island, Southern Chi a, Central Asia and Iran. The average values of the Lgwave velocities (from 3.12 to 4.24 km/sec) are cited. Direct dispersion is exposed in the interval of periods from 6 to 10 sec. The persion is exposed in the interval allows assumptions to be made presence of clear Lg-wave arrivals allows assumptions to be made there part), the Okhotsk Sea, and the Sea of Japan. It is supposed that the mechanism of the focus of the earthquake and its depth

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Lg-waves from ...

S/169/62/000/002/016/072 D228/D301

influences the origin of Lg-waves, since there are Lg-wave arrivals on all the recordings of earthquakes of the same areas. / Abstractor's note: Complete translation. 7

Card 2/2

PSHENNIKOV, Konstantin Vasil'yevich; TRESKOV, A.A., doktor fiz.matem_nauk, otv. red.

[Mechanism of the occurrence of aftershocks and the
inelastic properties of the earth's crust] Mekhanizm voznikmoveniia aftershokov i neuprugie svoistva zermoi kory.

Moskva, Nauka, 1965. 86 p. (MIRA 18:4)

ACCESSION NR: AP4023176

S/0210/64/000/001/0135/0140

AUTHOR: Pshennikov, K. V.

TITLE: The problem of aftershocks

SOURCE: Geologiya i geofizika, no. 1, 1964, 135-140

TOPIC TAGS: earthquake, aftershock, viscoelastic property, focus, earthquake focus, relaxation time, fracture, earth's crust

ABSTRACT: This paper presents a discussion of some patterns observed in aftershocks in the region of Baikal and Mongolia, previously outlined by the author
(Nekotory*ye osobennosti povtorny*kh tolchkov zemletryaseniy Pribaykal'ya i
Mongolii. Geologiya i geofizika, No. 4, 1962). In the present paper he assumes
that the crust possesses viscoelastic properties and that its behavior may be
described by a Maxwellian equation. From this he derives an expression for
relaxation time of strains in the hypocentral zone. The results agree with actual
observations on some well-documented earthquakes: the California earthquake of
21 July 1952 and the Middle Baikal earthquake of 29 August 1959. The average
relaxation time for the first was 92.4 days, for the second 84.0 days. The author

Card 1/2

ACCESSION NR: AP4023176

notes that aftershocks are missing from weak earthquakes (M<5) and suggests that the physical processes at the focus are different for strong and weak earthquakes. If fractures and other inhomogeneities exist in certain parts of the earth's crust, the critical limit of strain may not be reached, since displacement occurs earlier along the existing fracture system. Earthquakes in such regions are not accompanied by the formation of inelastic zones and are, consequently, not followed by aftershocks. "In conclusion, I express my thanks to N. S. Borovik, who participated in making the calculations." Orig. art. has: 2 figures and 9 formalss.

ASSOCIATION: Institut zemnoy kory* Sibirskogo otdeleniya AN SSSR, Irkutsk (Institute of the Earth's Crust Siberian Department AN SSSR)

SUBMITTED: 11Jul63

DATE ACQ: 10Apr64

ENCL: 00.

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NO REF SOV: 005

OTHER: 005

Card 2/2

PSHEINIKOV, K.V.

Angles of emergence of longitudinal waves in distant earthquakes based on observations made in seismic stations of the Baikal region. Geol. i geofiz. no.5:103-111 '60. (MIRA 13:9)

1. Seysmicheskaya stantsiya "Irkutsk" Ali SSSR. (Baikal region—Seismic prospecting)

PSHENNIKOV, K. V.

"Seismicity of Pribaykal'ye." Cand Phys-Math Sci, Irkutsk State, Irkutsk, 1954. (KL No 2, Jan 55)

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Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

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S/210/62/000/004/001/001 I028/I228

AUTHOR:

Pshennikov, K. V.

TITLE:

Some features of repeated earth tremors in the Baykal' region and Mongolia

PERIODICAL:

Geologiya i geofizika, no. 4, 1962, 119-121

TEXT: This paper treats the problem of a causally connected series of earthquakes. The energy of the maximum aftershock was on the average three times less than the energy of the main earthquake. The ratio E/V between the energy of the main earthquake and the volume of the zone of seismic centers of aftershocks was constant. The centers of the aftershocks were localized within the limits of the seismic center of the main earthquake (defined as the zone in which, as a result of the earthquake, non-elastic deformations and ruptures occurred). These results indicate that the aftershocks were of a secondary character and were connected with the elastic reaction of the earth's crust: they usually appeared after strong earthquakes (M-5), in which not all of the accumulated elastic energy was released during the main tremor. There is I figure and 2 tables. The main English-language reference is Tokuji Utsu. Magnitude of Earthquakes and Occurrence of their Aftershocks. Zisin (Journal of the Seismological Society of Japan), vol. 10, No. 1, 1957.

Card 1/2

Some feature of repeated earthquake tremors in the...

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1028/1228

ASSOCIATION: Vostochno-Sibirskiy geologicheskiy institut Sibirskogo otdeleniya AN SSSR (East-Siberian Geological Institute of the Siberian Division of the AS USSR) Irkutsk

SUBMITTED:

July 24, 1961

Card 2/2

ACCESSION NR: AP4041182

5/0049/64/000/006/0894/0898

AUTHOR: Pshennikov, K.V.

TITLE: Changes in the velocity of seismic waves in the hypocentral zone of aftershocks

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 6, 1964, 894-898

TOPIC TAGS: geophysics, seismology, seismicity, seismic wave, seismic aftershock

ABSTRACT: A study has been made of the change of velocities of seismic waves in the hypocentral zone of aftershocks. Data used were for the aftershocks of the Central Baykal earthquake of 29 August 1959. The seismic stations then existing are shown in Fig. 1 of the Enclosure, as well as the positions of four seismic stations established immediately thereafter. The recorded data clearly suggested that there was a change in the ratio of the velocities of longitudinal and transverse waves in the hypocentral zone of the aftershocks. Wadati graphs were used in an effort to clarify this problem. It was found that contrary to prevailing opinion the presence of a local zone with anomalous velocity values around an earthquake focus does not change the slope of the Wadati curve, provided that all the observing stations are situated

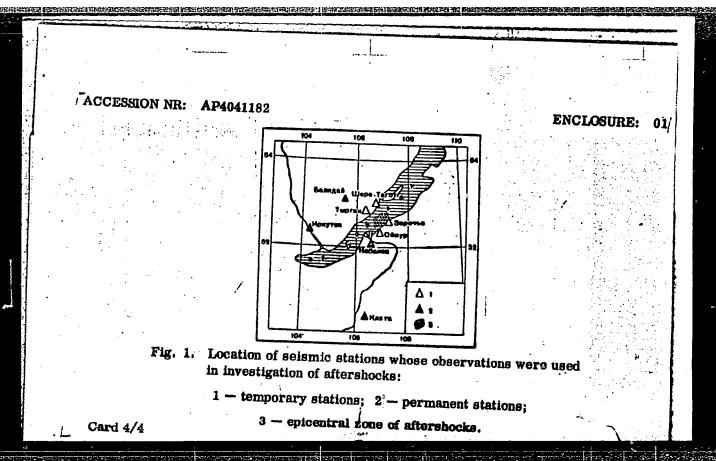
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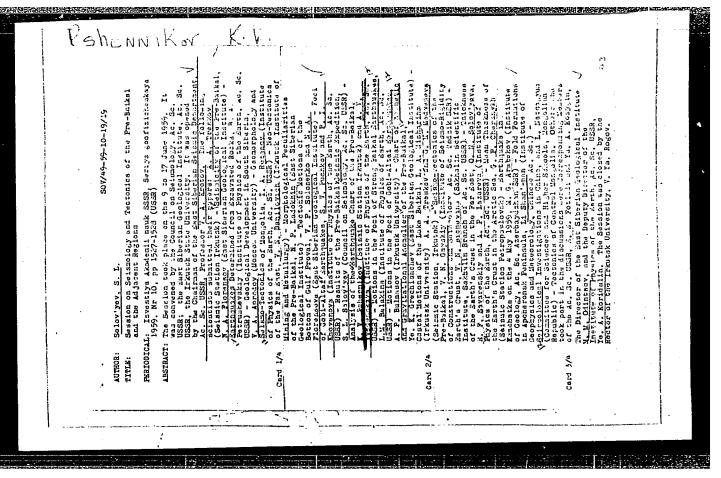
ACCESSION NR: AP4041182

outside its limits. The slope of the Wadati curve changes only if all or part of the stations are situated within the zone of anomalous velocities. In actual cases the zone of anomalous velocities will not have spherical symmetry; it may be quite complex, so that the hypocentral distances traveled by the waves will be different for stations with different azimuths. An example is considered which is as close as possible to real conditions. Change in velocity in the hypocentral zone of aftershocks obviously causes an error in determination of hypocenters, since it usually is assumed that velocity is constant within the entire region. This is illustrated by analysis of a fictitious earthquake. A small error in velocity results in a significant error in location of the epicenter. It must be postulated that there is a change in the velocities of seismic waves in the hypocentral zone of aftershocks. The value cannot be determined, but it must be significant and the velocities of the longitudinal and transverse waves should change nonproportionally. These assumptions do not agree with the theory of elasticity but they do confirm the hypothesis that there is a change of the rheological properties of the medium at the focus of a strong earthquake and that for a long time there is, in the area, a zone with decreased elastic properties, whose presence is responsible for the development of aftershocks. Orig. art. has: 5 figures and 1 table.

Card 2/4

ACCESSION NR: AP40411	82		
ASSOCIATION: Institut zer of the Earth's Crust, Siber	mnoy kory, Sibirskoye otdelerian Division, Academy of Sci	niye, Akademiya nauk S iences USSR)	SSR (Institute
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PSHENNIKOV, K.V.; FOMINA, Ye.V.

Energy characteristics of earthquakes in the Lake Baikal region in 1952-1961. Trudy Inst. zem. kory SO AN SSSR no.18: 11-14 '64. (MIRA 18:11)

PSHENNIKOV, K.V.

Conditions governing the excitation and distribution of seismic waves in the hypocenter zone of aftershocks. Trudy Inst. zem. kory SO AN SSSR no.18:37-40 '64. (MIRA 18:11)

ACC NR: AT6036915

SOURCE CODE: UR/3235/64/000/018/0037/0040

AUTHOR: Pshennikov, K, V.

ORG: none

TITLE: Conditions of generation and propagation of seismic waves in the hypocentral zone of aftershocks

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut zemnoy kory. Trudy, no. 18, 1964. Voprosy seysmichnosti Sibiri (Problems in the seismicity of Siberia), 37-40

TOPIC TAGS: earthquake, aftershock, focal depth, seismic wave, seismicity, seismological station, hypocenter

ABSTRACT: The seismograms of the aftershocks of the Central Baykal earthquake of 29 August 1959 were analyzed in order to determine the effect of changes of the elastic properties at and in the vicinity of the focus of the main shock on the generation and propagation of seismic waves from the aftershocks. The mean ratios of amplitudes of direct shear waves with direct longitudinal waves (A_5/A_5) were determined from 221 seismograms from 3 stations for which the mechanism of first motion was established. It

Card 1/2

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was found that 60% of aftershock epicenters with $A_{\overline{s}}/A_{\overline{D}} \leq 5$, i.e., epicenters for which the intensity of shear waves is lower than normal, are concentrated within a small area of the epicentral zone of the aftershocks. This area was interpreted as being a zone in which shear wave generation is weaker or attenuation is greater than in other parts of the epicentral zone of aftershocks. A relatively equal distribution of epicenters of aftershocks with sufficiently high intensity shear waves (5 < $A_{\overline{S}}/A_{\overline{D}} \le 10$, and $A_s/A_D > 10$) indicates that the area for which $A_s/A_D \le 5$ has definite boundaries when projected not only onto a horizontal, but also onto a vertical plane and that normal intensity shear waves are generated by aftershocks with hypocenters above and below this area. The relative decrease in amplitude of shear waves from aftershocks was attributed to excitation of seismic waves in a zone with lower than normal elastic properties and not to wave propagation conditions. The variation of the periods of shear waves from aftershocks was also investigated, however, no definite conclusions could be reached. Orig. art. has: 4 figures. [CS]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 007

Card 2/2

ACC NR. AT6028372

(N)

SOURCE CODE: UR/0000/65/000/000/0073/0084

AUTHOR: Misharina, L. A.; Pshennikov, K. V.

ORG: none

TITLE: Earth crust stress-relaxation process according to the earthquake investigations in the Baikal area and in Mongolia

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geohysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 75-84

TOPIC TACS: stress field, earthquake, after shock, viscosity, geological structure, seismology, Earth crust / B_{RIKAL} $M_{ONGOLIA}$

ABSTRACT: Investigation of stress fields in the Baikal area and adjacent regions through observations of both intense and relatively weak earthquakes makes it possible to single out two adjoining zones, differeing in type of stress fields and separated by a distinct boundary. Horizontal tension stresses and vertical pressure stresses are found to the northeast of this boundary while horizontal pressures stresses are perpendicular to the geological structures. The investigations confirm the assumption that the Earth's crust has stable stress fields which cause the stresses observed at the foci of both intense and weak earthquakes. The aftershocks

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[Mechanised cutting at macaroni industry enterprises] Mekhanicheskala reska na predprilatilakh mekaronnoi promyshlennosti. Moskva, Pishche-promizdat, 1957. 38 p.

(Cutting machines) (Macaroni)

NUR'YAKHMETOVA, A.N.; PSHENNIKOVA, L.E.; YUR'YEVA, V.L.

Sanitary and hygienic evaluation of the water supply of the city of Pechora in Pskov Province. Trudy ISGMI no.68:173-177 '61.

(MIRA 15:11)

1. Kafedra kommunalinoy gigiyeny Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. A.I.Shtreys).

(PECHORA-WATER SUPPLY)

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MEYERSON, F.Z.; PSHENNIKOVA, M.G.; RAMENSKAYA, G.P.; CHERNYSHEVA, G.V.

Experimental prophylaxis of some changes developing in the myo-cardium during chronic heart failures. Dokl. AN SSSR 141 no.2: 509-512 N '61. (MIRA 14:11)

1. Institut normal'noy i patologicheskoy fiziologii Akademii medltsinskikh nauk SSSR. Predstavleno akademikom L.S.Shtern. (HEART FAILURE)

PSHENNIKOVA, M.G.; GODIN, V.P.

Change in the sodium balance in rats subjected to experimental heart failure. Dokl. AN SSSR 154 no.2: 480-483 Ja'64. (MIRA 17:2)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR. Predstavleno akademikom A.N. Bakulevym.

MEYERSON, F.Z.; MALOV, G.A.; PSHENNIKOVA, M.G.; KALEBINA, N.S.

Correlation in the intensity of synthesis and the breakdown of protein in the myocardium in heart hyperfunction. Dokl. AN SSSR 154 no. 3:738-741 Ja '64. (MIRA 17:5)

l. Institut normal'noy i patologicheskoy fiziologii AMN SSSR i Institut serdechno-sosudistoy khirurgii AMN SSSR. Predstavleno akademikom A.N.Bakulevym.

MEYERSON, F.Z.; ZALETAYEVA, T.A.; LAGUCHEV, S.S.; ISHENNIKOVA, M.G.

Correlation of the mass of energy-producing and functioning structures in the adaptation process of the differentiated cell to a prolonged increase in functional level. Pokl. AN SSSR 157 nc.3:668-671 Jl 164. (MIRA 17:7)

1. Institut normalincy i patclegicheskoy fiziologii AMN SSSR i Institut eksperimentalincy biologii AMN SSSR. Predstavleno akademikum A.N. Belozerskin.

PUZNOVICH, L.S.; PSHENNIKOV, V.I.; STOROZHEV, V.M.; MEDVEDEV, T.I.

Using natural sodium brine to cool industrial liquids. From.
energ. 12 no.8:18 Ag '57.

(Soda industry) (Cooling)

PSHENNIKOVA, M. G., Cand Biol Sci — (diss) "Functional changes of the neuromuscular apparatus under local nerve stimulation by X-rays."

Mos, 1958. 19 pp (Mos Ordervof Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov, Biol-Soil Faculty, Chair of Biophysics), 110 copies (KL, 17-58, 106)

-19-

KIRZON, M.V.; PSHENNIKOVA, M.G.

Propagation along the nerve of nonimpulsive influences from a region irradiated by I rays [with summary in English]. Biofizika 2 no.6: 686-697 '57. (MIRA 10:12)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(I RAYS--PHYSIOLOGICAL EFFECT) (NERVES)

PSHEMNIKOVA, M. G.; ROZANOVA, L. S.

Significance of the form of the impulse as one of the parameters of AN electrical stimulus. Nov. med. tekh. no.2:38-46 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel skiy institut meditsinskikh instrumentov i oborudovaniya.

(ELECTROPHYSIOLOGY)

USSR Country Ţ . Human and Animal Physiology. catogory Nerve and Muscle Physiology. Abs. Jour. : Ref Thur-Biol., No 23, 1958, 106745 : Hirzon, H. B.; Pshennikova, M. G. Author The Sprending along the Herve of non-Institut. Impulse Influences Originating from Title the Area of E-rays! Action. : Eiofizika, 1957, 2, No 6, 686-697 Orig Pub. : A nerve sector (8-9 mm long) of a constant herve and muscle specimen of a frog was subjected to Abstract 400-450 r/r X-ray radiation, lasting 5, 10, and 20 minutes. Changes in north excitability and conductivity were recorded by usual myo-graphic methods. The electrodes which were used sc stimulants, were placed proximally and distally to the irradiated nerve sector. Progresrive diminution of conductivity was observed in the irrediated sector. Two influence phases of

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Abs. Jour.: Ref Enur-Biol., No 23, 1955, 106745 Luthor Institut. Title Orig. Pub. : Abstract the irradiated nerve sector upon the non-irradia (cont) ted herve sector were observed. The first short-lasting phase was characterized by excitability becoming more intensive in the distal and proximal nerve sectors (distally, at a distance of 25 cm from the irradiation area). The second phase was characterized by a progressive diminution of muscle responses which became the more substantial the stronger were the*stimulants of the *test Card: 2/3

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Nerve and Muscle Physiology.
Abs. Jaur.: Ref Zhur-Biol., No 23, 1958, 106745

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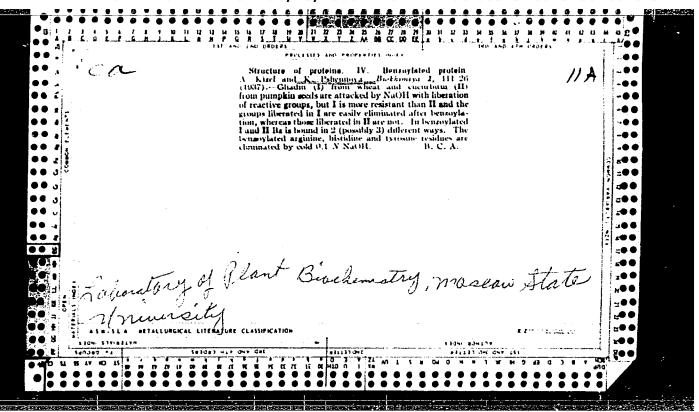
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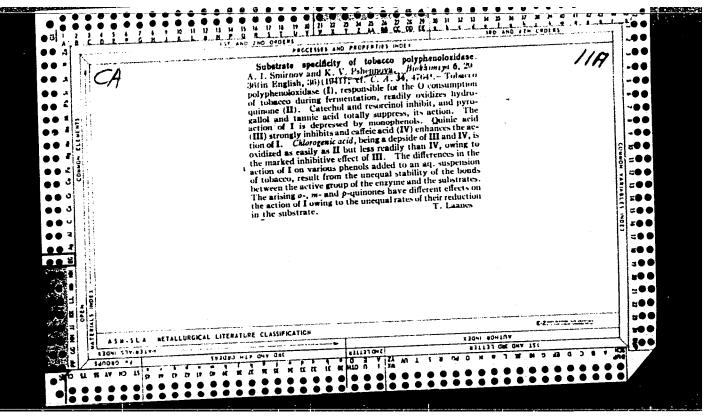
test. It is assumed that muscle responses grow weaker as a result of decreasing functional ability of nerve and muscle synapses (or of the muscle itself). Such decreases develop as a response to nonimpulsive influences originating at the irradiated nerve sector. -- Ye. A. Zhirmunskaya

YEVDOKIMOV, I.I.; ALEKSHYEV, V.D.; ASHIKHMIN, A.K.; BAYEV, N.V.; BEGLAR'YAN, P.A.; BYCHKOV, I.A.; VESLOVA, Ye.T.; VYZHEKHOVSKAYA, M.F.; GURETSKIY, S.A.; DEMIDOV, I.M.; YESIPOV, Ye.P.; ZHUKOV, V.D.; ZELIHSKIY, M.G.; ZOL'NIKOV, F.T.; ZOLOTOVA, L.I.; KIVIN, A.N.; KOMARNITSKIY, Yu.A.; KONSTANTINOV, A.N.; KUL'GHITSKAYA, A.K.; MAKSIMENKO, I.I.; MELENT'YEV, A.A.; MOROZOV, I.G.; MURZINOV, M.I.; OZEMBLOVSKIY, Ch.S.; OSTRYAKOV, K.I.; PANINA, A.A.; PAVLOVSKIY, V.V.; PERMINOV, A.S.; PERSHIN, B.F.; PRONIN, S.F.; PSHENNYY, A.I.; POKROVSKIY, M.I.; RASPONOMAREV, Ye.A.; SEMIN, I.N.; SKLYAROV, Yu.N.; TIBABSHEV, A.I.; FARBEROV, Ya.D.; FEDOROV, G.P.; SHUL'GIN, Ya.S.; YAKIMOV, I.A.; VERINA, G.P., tekhn.red.

[Labor feats of railway workers; stories about the innovators]
Trudovye podvigi zheleznodorozhnikov; rasskazy o novatorakh. Moskva,
Gos.transp.zhel-dor.izd-vo, 1959. 267 p. (MIRA 12:9)
(Railroads) (Socialist competition)



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PSHENNOVA, K. V.

"The Respiratory Metabolism and Enzymic Activity of the Wheat Kernel during Ripening," A. I. Smirnov, Z. S. Bronoviytskaya, K. V. Pshennova, S. D. Chigirev, and E. N. Ushakova, Biokhimiya 8, pp 149-57 (1943) (SEE: Inst. Insect/Fungi. in Ya. V. Samoylov)

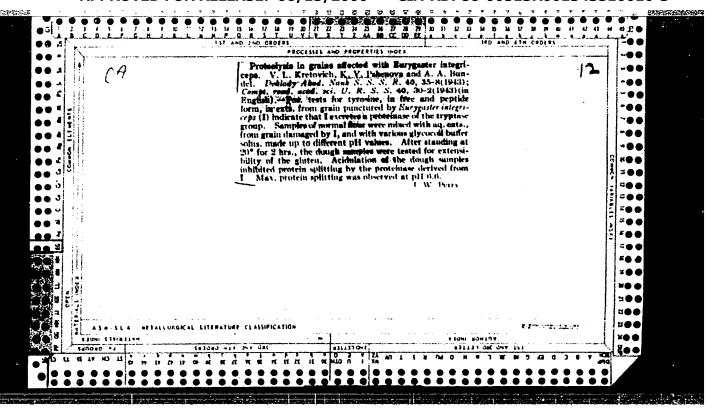
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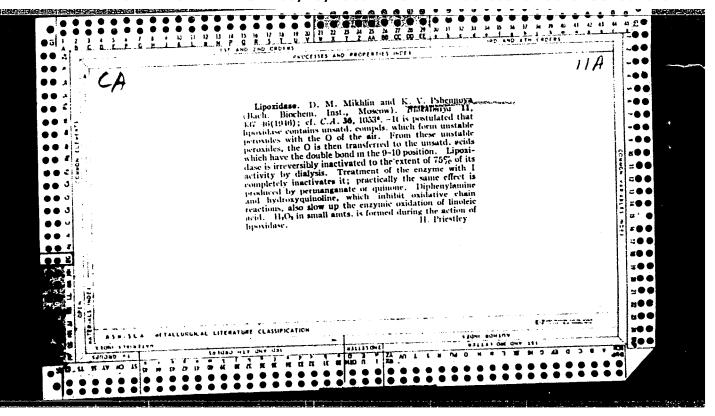
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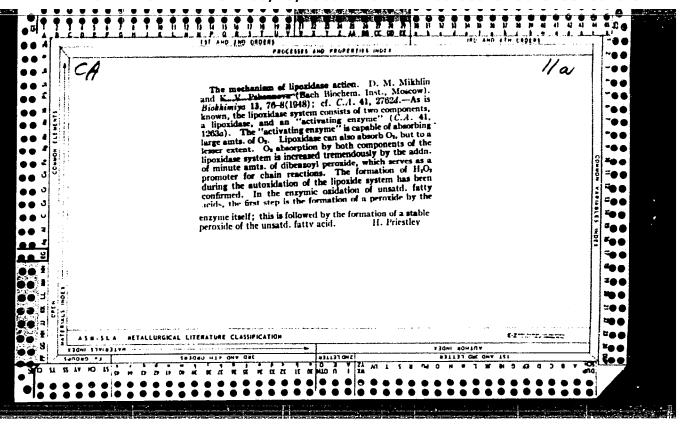
PSHENOVA, K. V.

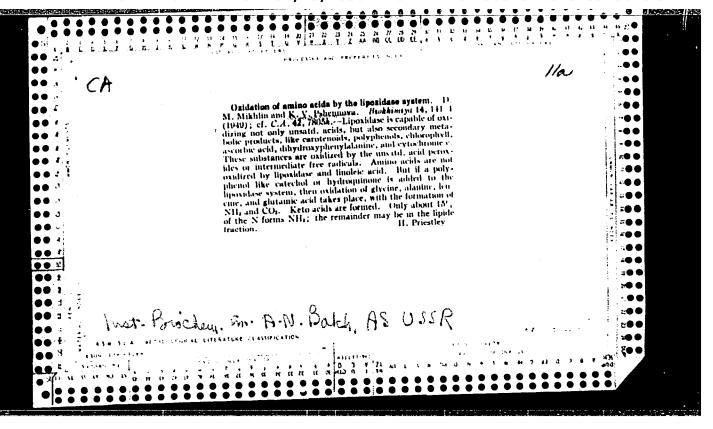
"Mechanism of Wheat Injury by Eurygaster Integriceps," Dok. AN, 39, No. 1, 1943.

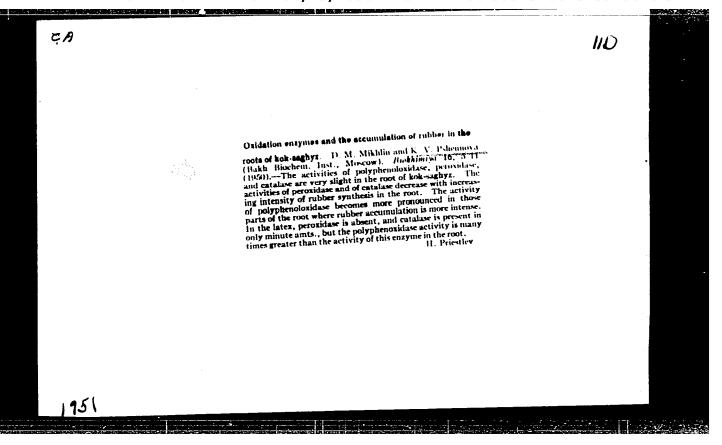
Inst., Biochemistry im. A. N. Bakh, Dept. Biol. Sci., AS.

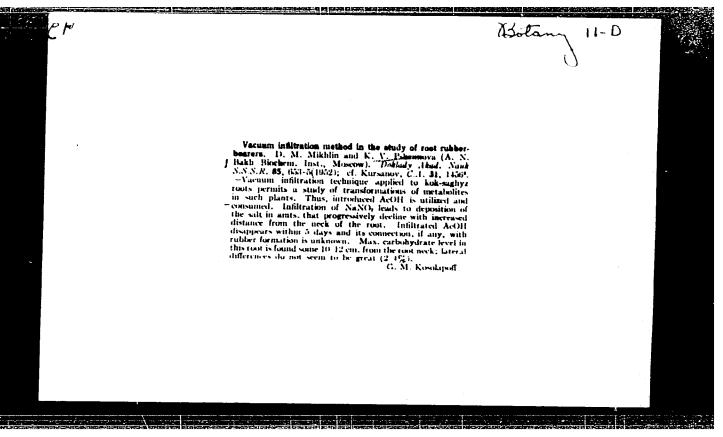












1. MIKHLIN, D.M., PSHENOVA, K.V.

- 2. USSR (600)
- 4. Kok-Saghyz
- 7. Polyphenol compounds in kok-saghyz. Biokhimiia No.1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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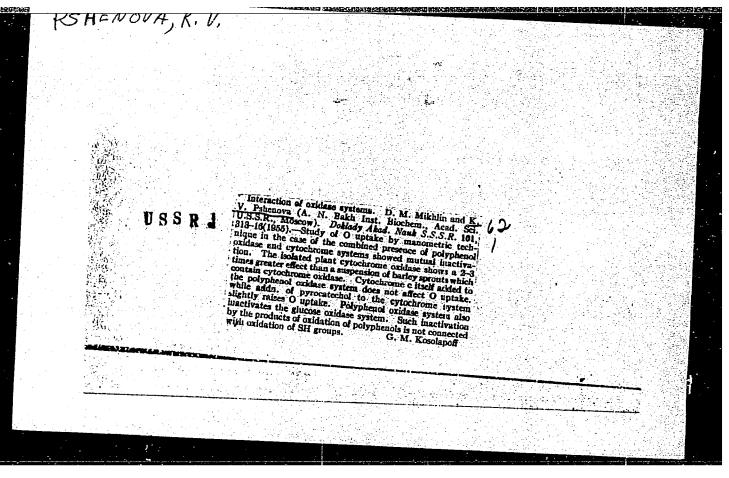
PSHENOVA, K. V.

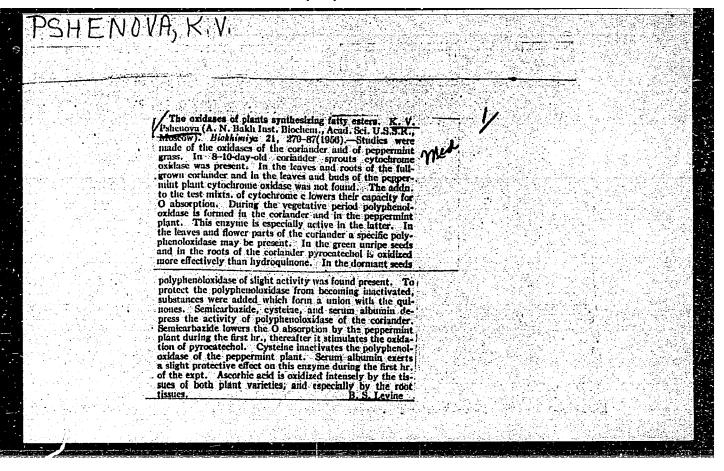
| 4375. Polyphenolic compounds of kok-saghys. | 1933. 18, 24.5 Ceter. 73.7, 1933. 47, 2909. Most of the polyphenology activity of the root is concentrated in the later. The root was extracted remove tar, rubber pigment, lighds, and other standards. | 1934. 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935. | 1935

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Compounds of copper and iron in plants. Doklady Akad. Nauk S.S.S.R.
90 433-5 '53.
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I-2

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10402D

Author

: Pshenova, K.V.

Inst

: Institute of Biochemistry, Academy of Sciences USSR

Title

: Final Oxidizing Systems of Some Plants.

Orig Pub

: Avtoref. diss. kand. biol. n., In-t biokhimii Akad Nauk

Abstract

: No abstract.

Card 1/1

PSHEMETA, E.V.: KOMESHIROV, F.A.

Interaction of lipoperoxides with the components of some oxidation systems. Biokhimila 30 no.5:1059-1064 S-0 165.

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MUTUSKIN, A.A.; PSHENOVA, K.V.; KOLESNIKOV, P.A.

Biological role of the nonhemin iron of wheat germs. Dokl. AN SSSR 150 no.1:184-187 My '63. (MIRA 16:6)

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(Wheat germ) (Iron) (Hemins)

PSH-HOVA, K.V., ROLESIUROV, P.A.

Idpoxidase in wheat seedlings. Biokhimiia 26 no.6:1008-1012 F.D +61. (MIRA 15:6)

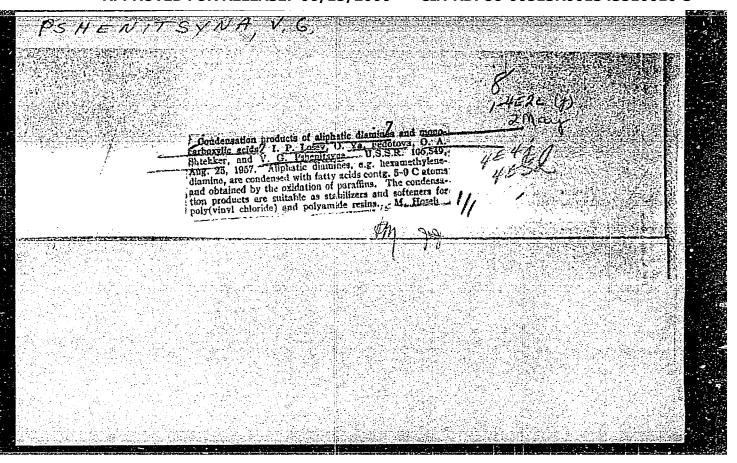
1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscoc.

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SMIRNOV, O.K.; LEVI, S.M.; Prinimali uchastiye: PSHENOVA, M.G.; IVANCHIKOVA, A.F.; KOCHNEVA, S.N.; STEPANOVA, T.K.; SHVADCHENKO, L.P.; AVERBAKH, K.O.

Relation between the structure of surface-active substances and their adsorptive capacity. Part 2: Esters of sulfosuccinic and sulfopropionic acid (Na-salts). Koll. zhur. 26 no.3:350-355 My-Je '64. (MIRA 17:9)

l. Nauchno-issledovatel'skiy kino-fotoinstitut i Institut organicheskikh poluproduktov i krasiteley, Moskva.



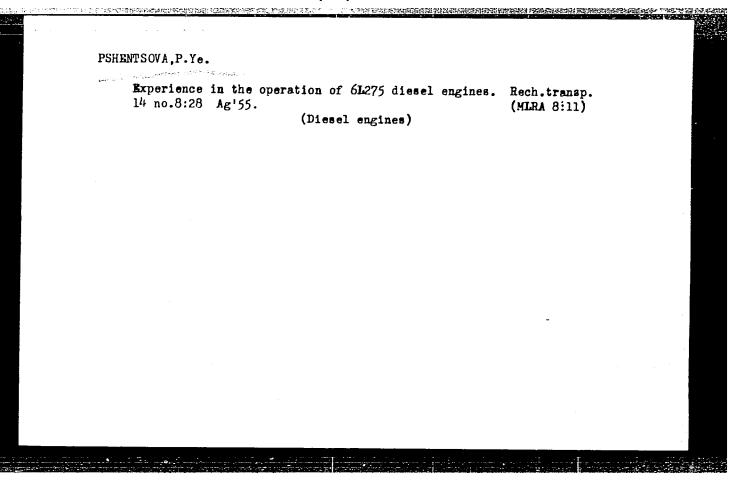
On the road to reorganization. Sel'. stroi. 17 no.4:2-9 Ap '63.

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(Saratov Frovince—Construction industry)

(Collective farms—Interfarm cooperation)



PSHENYANIK, G.A., gvardii polkovnik, dots., kand. voyennykh nauk.

In the Kuban aky. Vest. vozd. fl. 40 no.2:47-54 F '58. (Miza 11:2)
(Kuban--World War, 1939-1945--Aerial operations)

YOHEA YANA, G.A.

86-2-30/45

AUTHOR:

Pshenyanik, G.A., GuCol, Docent, Candidate of Mil.

TITLE:

In the Skies Over Kuban' (V nebe Kubani)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 2, pp. 47-54 (USSR)

ABSTRACT:

The article describes the course of combat events of the Soviet Air Force on the North-Caucasus front from April

17 to June 7, 1943.

AVAILABLE: Library of Congress

Card 1/1

CIA-RDP86-00513R001343510010-3" APPROVED FOR RELEASE: 06/15/2000

ACCESSION NR: AP4006579

S/0021/63/000/004/0427/0430

AUTHOR: Psheny*chny*y, B. M.

The Control of the Section of the Se

TITLE: Relation of the theory of graphs and the transportation problem

SOURCE: AN UkrRSR. Dopovidi, no. 4, 1963, 427-430

TOPIC TAGS: transportation problem, transportation problem solution algorithm, graph theory, Kirchhof equation, maximal tree, optimal graph cycle

ABSTRACT: In an earlier reference M. L. Tsetlin, DAN USSR 129, 747 (1959)7 the connection between the theory of graphs and the transport problem was established. This earlier work required that in order to optimize the entire plan (program), each possible cycle be individually optimized. In this paper an algorithm of the solution to the transport problem is constructed whereby only a portion of the cycles require verification as to their optimal nature. Kirchhof's equations and the theory of graphs are used in constructing the algorithm.

ASSOCIATION: O. Ts. AN UKOSSR

SUB CODE: MM

SUBMITTED: 25Jun62 DATE ACQ: 03May63

NO REF SOV: 002

ENCL: 00 OTHER: 001

24 4500

S/021/62/000/009/003/008 ··· D234/D308

AUTHOR:

Pshenychnyy, B.M.

TITLE:

An algorithm for finding optimum solutions of a certain

class of problems in discrete space

PERIODICAL:

Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 9,

1962, 1154 - 1157 ·

TEXT: The author considers a discrete set K in an n-dimensional space, defined by

 $x_i = \lambda_{1i}, \lambda_{2i}, \dots, \lambda_{ki}i, i = 1, \dots, n.$ $\lambda_{1i} < \lambda_{2i} < \dots$

and its subset G for which $y \in G$ if $x \in G$, $\dot{y} \in K$ and $x \leqslant y$, G can be defined by

 $\varphi_{i}(x) \geqslant b_{i}$, $i = 1, \ldots, m$ (2)

where

$$\varphi_{\mathbf{i}}(\mathbf{x}) \leqslant \varphi_{\mathbf{i}}(\mathbf{y})$$
 (3)

when $x \leqslant y$. The problem consists in finding the minimum of $\phi(x)$ in the set G. The algorithm beings with a point x^0 defined by

An algorithm for finding optimum ...

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$$x_{i}^{0} = \lambda_{ki} i \qquad x^{0} \in G$$
 (4)

a sequence of points

$$y_1 > y_2 > \dots > y_m > \dots, y_m \in G$$
 (5)

is constructed for which

$$\varphi(y_1) > \varphi(y_2) > \dots > \varphi(y_m) > \dots$$
 (6)

Two consecutive points y_m , y_{m+1} are adjacent (i.e. one coordinate assumes one of the nearest possible discrete values) and the sequence cannot end at a point having an adjacent one with a smaller value of $\varphi(x)$. The last point of the sequence (denoted by \overline{x}_0) has minimal value of $\varphi(x)$. New points are chosen with the aid of the coordinates of \overline{x}_0 and new sequences are constructed. All points with minimal properties are obtained in the process. The author points out that very many problems can be solved by this method, in particular, the problem of choosing the diameters of gas and water supply pipes.

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An algorithm for finding optimum ...

ASSOCIATION: Obchyslyuval'nyy tsentr AN URSR (Computing Center,

AS UkrSSR)

PRESENTED:

by Academician V.M. Hlushkov, AS UkrSSR

SUBMITTED:

November 15, 1961

Card 3/3